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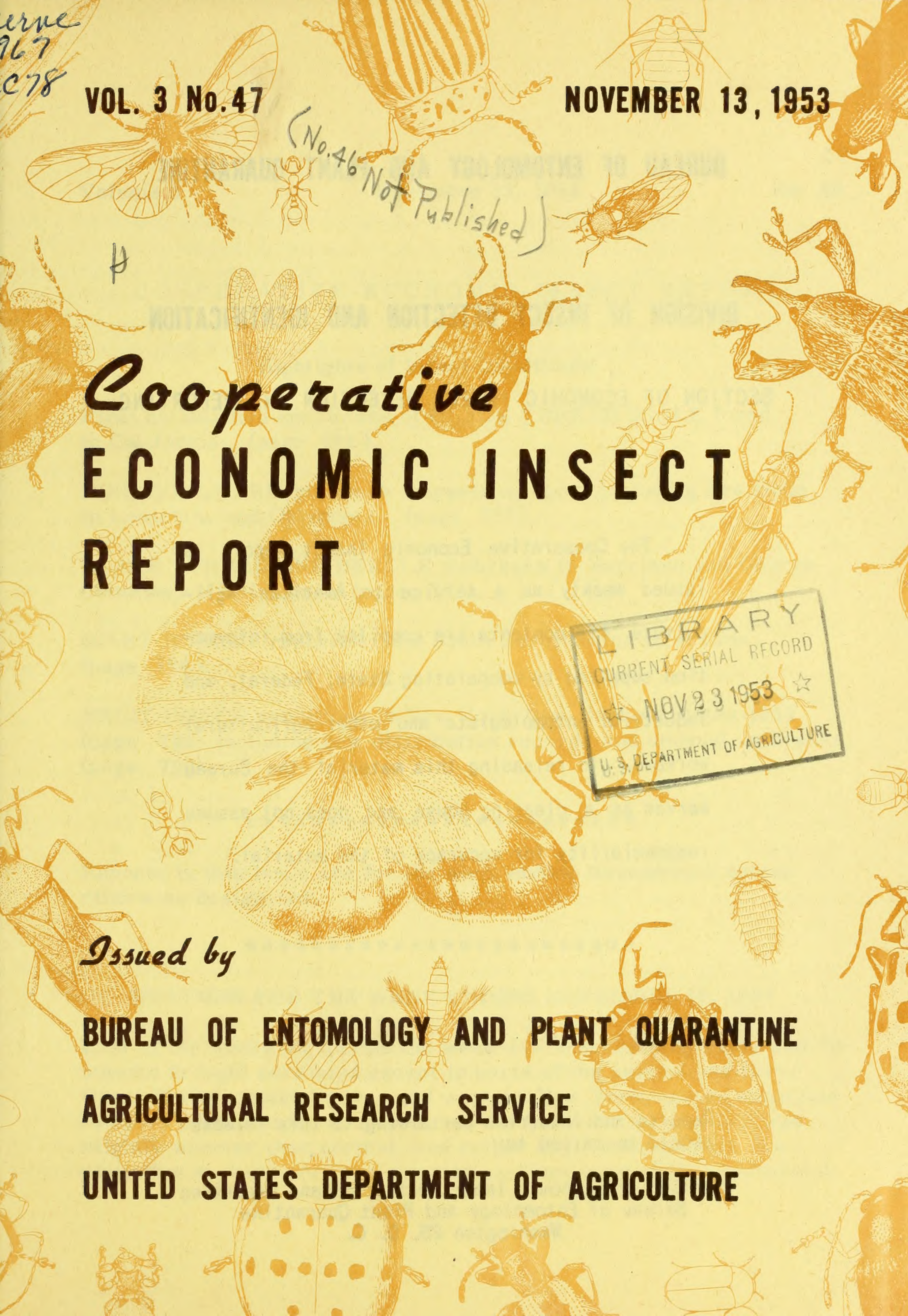

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Cooperative ECONOMIC INSECT REPORT

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BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

DIVISION OF INSECT DETECTION AND IDENTIFICATION

SECTION OF ECONOMIC INSECT DETECTION AND REPORTING

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Bureau serves as a clearing house and does not assume responsibility for accuracy of the material.

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Section of Economic Insect Detection and Reporting
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COOPERATIVE ECONOMIC INSECT REPORT

Highlights of Insect Conditions

First established specimens of BLACK THREAD SCALE found in California. (page 792).

PINK BOLLWORM gin trash inspection report including new finds in Louisiana and Oklahoma. (page 793).

BLACK TURPENTINE BEETLE outbreaks in Harrison and George Counties, Mississippi. (page 793).

GIANT HORNET reported from South Carolina for first time. (page 794).

FRUIT INSECT conditions in New York-New England States-1953 (page 785) including new distribution records and unusual outbreaks. (page 790).

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Reports in this issue are for the week ending November 6 unless otherwise designated.

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WEATHER FOR THE WEEK ENDING NOVEMBER 10, 1953

East of the Rocky Mountains the week was unseasonably cold, and the autumn drought persisted except in parts of the central and lower Great Plains, coastal areas and western New York, where moderate to heavy precipitation occurred. In the far West the weather was slightly warmer than normal and rather dry, although light precipitation in some northern interior sections west of the Continental

Divide benefited small grains. In the northern Great Plains and from the tier of States immediately west of the Mississippi River to the Appalachians except along the Gulf, precipitation (mostly very light) occurred in only a few scattered sections. Dry soil retarded growth of small grains and prevented fall plowing. Acute water shortages continued in many sections, and the fire hazard remained high in some places

On the 6th and 7th as a storm moved up the Atlantic Coast to southeastern New York and thence northwestward across that State, heavy rains fell along the immediate coast and heavy snow over northern Virginia and most of the middle Atlantic State area, and northeast gales and high tides caused heavy property damage along the southern New England Coast. Many stations, including the Nation's Capitol, reported the heaviest snowfall on record for so early in the season. The snowfall measured 6.5 inches at Washington, D.C., 27.5 at Middleburg, Pa., and more than 2 feet locally in western New York.

General snowfall over the central Great Plains on the 6th was also unusually heavy in south-central Nebraska and north-central Kansas where total falls of 15 inches and depths up to 10 inches were reported. A few inches of snow remained on the ground at the end of the period in parts of Nebraska, Kansas, eastern Pennsylvania, and western New York. Freezing during the week occurred as far south as the central portions of the Gulf States, and minima of 39° and 38° were recorded at Mobile, Ala., and Tallahassee, Fla., respectively on the 7th. In the extreme north the first zero temperatures of the season were reported in northern Wisconsin--at Danbury on the 5th and Land O'Lakes on the 6th.

Precipitation during the last 3 weeks substantially relieved the drought in the Atlantic and Gulf coastal areas, most of the western and southern Great Plains, sections of the Rocky Mountain Region, and along the north Pacific Coast . Severe dryness still persists, however, in the upper and middle Mississippi Valley, generally from the Lake Region southward almost to the east-central Gulf Coast, and in far northwestern interior areas and far Southwestern Border districits, where many sections received less than one-fourth of the normal precipitation during the last 9 weeks. (Summary Supplied by the U.S. Weather Bureau).

CEREAL AND FORAGE INSECTS

FALL ARMYWORM (Laphygma frugiperda) - ARIZONA - Attacking ears of sweet corn at Mesa. (Hopkins). Some damage to tassels and ears of corn at Phoenix. (Bibby, Hammers).

CORN EARWORM (Heliothis armigera) - TEXAS - Severe infestation on sweet corn in Willacy County. (Wene).

WEEVILS and ANGOUMOIS GRAIN MOTH - SOUTH CAROLINA - Infesting around 10 percent of ears of corn in Orangeburg County. (Nettles, Oct. Rept.).

WHITE GRUBS - OKLAHOMA - Causing damage to wheat in Tillman County. (Stiles).

RUSTY PLUM APHID (Hysteroneura setariae) - ARIZONA - Very abundant on sorghum in a field near Mesa. (Hopkins).

YELLOW-STRIPED ARMYWORM (Prodenia ornithogalli) - ARIZONA - Newly-planted alfalfa fields becoming heavily infested at Yuma. A few cutworms and beet armyworms involved. (McCain).

LEAFHOPPERS - UTAH - Clover leafhopper (Aceratagallia sanguinolenta) numerous in alfalfa fields in areas of Salt Lake and Utah Counties. (Knowlton, Oct. 30). SOUTH CAROLINA - Damaging small grains. Three-cornered alfalfa hopper seriously affecting alfalfa in all parts of State. (Nettles, Oct. Rept.).

FRUIT INSECTS

APHIDS - UTAH - Aphids, largely fall migrants, extremely numerous on fruit trees, shade trees and ornamentals in Utah County. (Knowlton, Oct. 30).

A LEAFHOPPER (Dikrella cockerelli) - ARIZONA - Abundant in some untreated vineyards at Mesa. (Hopkins).

FRUIT INSECT CONDITIONS - 1953

NEW YORK-NEW ENGLAND STATES

This summary presented at the New York -New England Fruit Spray Specialists' Conference, Poughkeepsie, New York, November 4,1953, has been compiled from reports submitted by workers in each State or area. (E. H. Wheeler).

Symbols: G - of general concern as contrasted to L - of local importance only. 0 - negligible; 1, slight (less than 5% losses) minimum effort gave satisfactory protection; 2, moderate (5-20% losses) satisfactory control required full program with good timing; 3, serious (20% up) special effort or emergency treatments required above and beyond a normal full program of preventive measures.

							New York	
CROP AND PEST	Me.	N.H.	Vt.	Mass.	R.I.	Conn.	Hudson Valley	Champ. Valley
APPLE								
Plum curculio	L-0	G-2	G-1	G 1-2	G-2	G-3	G-3	G-1
Apple maggot	G-0	G-2 L-3	G-1	G 1-2	G 2-3	G-3	G-1 L-2	L-1
Codling moth	L-1	L-2		G-1 L 2-3	G-1	G-2	G-0 L-3	G-2
Red-banded leafroller	G-1	G-1 L-2	G-1	G-2	G-1	G-2	G-1 L-2	G-2
Apple sawfly						L-3	L 0-1	
Bud moth	G-1	G-1 L-2	L-1	G-1 L-2	L-0	L-0	L 0-1	L-2
Rosy aphid	G-1	G-1	G-2	L-1	G-1	G-1	G-1	L-2
Green aphid	G-1	G-2	L-0	G 2-3	G-1	G-2	G-2	G-2
White apple leafhopper		L-1	L-0	L-0		G-1	L-0	L-1

CROP AND PEST (Cont'd)	Me.	N.H.	Vt.	Mass.	R.I.	Conn.	New York Hudson Valley	New York Champ. Valley
European red mite	G-1	G-1	G-1	G 1-2	L-2 G-1	G-3	G-2	G-2
2-Spotted mite		G-1	G-1	G 1-2	G-1	G-2	G-2	L-2
Clover mite				L-1		G-0	L-0	
Yellow mite		G-1		G-0 L-1		G-0		
Red bug & Tarnished plant bug	G-0 L 1-2	L-1		G-2	G 0-1	G-1	0 L-0*	G-2
San Jose scale			L-0	L-1		G-0	L-0	
Oystershell scale	G-0	L-2	L-0	G-0			L-0	L-2
Japanese leafhopper						L-2		
Spanworm			G-1					
PEAR Pear Psylla	G-0 L 1-2	G-2		G-1 L-2		G-3	G-2	L-3
Pear midge				L-2		L-0	L-2	
Blister mite	G 0-1	L-1		G-0 L-1		L-2	L-1	
Codling moth		L-1		L-1		G-2	G-2 L-3	
Plum curculio							G 1-2	
PEACH Plum curculio	G-0	G-1		G 1-2	G-2	G-3	G 2-3	
O.fruit moth		L-1		G-1 L-2	G-2	G-3	G 1-2	
Peach tree borers		L-2		G-1	L-1	G-2	G 1-2	
2-Spotted mite		L-1		G-1	L-1	G-1	L 1-3	

* 0 - Red bug; L-0 - Tarnished plant bug.

CROP AND PEST	Me.	N.H.	Vt.	Mass.	R.I.	Conn.	New York Hudson Valley	New York Champ. Valley
European red mite		L-1		L-1	L-1	G-2	G-1	
Plant bugs		L-1		G-1	G-1	L-1	G 0-2 L-3	
CHERRY								
Fruit Fly							L-1	
Plum curculio							G-2	L-1
Black aphid				G-1			G 1-2	L-1
Leaf miner							L-1	
PLUM AND PRUNE								
Plum curculio	G-0 L 1-3				L-1	G-3	G 2-3	G-2
Plum aphid	G-0					G-0	L-0	G-2
European red mite						G-0	G-1	G-2
Plant bugs						L-1		
Apple maggot						L-0		
GRAPE								
Berry moth		L-1		G-1		G-3	G-1	
Cane girdler							L-0	
Leafhopper		L-1		G-2		L-1	G-1	
Tomato & Blister galls		L-1		G-0 L-2		G-1	G-1 G-2	
BLUEBERRY (Cultivated)								
Fruitworm (Mineola vaccinii)		L-1		G-2	L 0-1			
Weevil (Anthonomus musculus)				G-1		G-1		

CROP AND PEST	Me.	N. H	Vt.	Mass.	R. I.	Conn.	New York Hudson Valley	New York Champ. Valley
Stem borer				G-0	G 0-1			
Fruit fly (maggot)		L-1		G-1 L-2		G-1		
Cherry fruitworm				G-1				
BLUEBERRY (Wild)								
Fruit fly(maggot)	G-2	G-1		G-2				
STRAWBERRY								
Weevil	G	L-1		G-2		G-1	G-0 L-3	
Rootworm		G-1						
White grubs	L-1	G-2		L-2		L-1	L-1	
Spittlebugs	G-0	G-1	L-0	G-1		G-2	G 0-2	
Leaf roller	G	G-1		G-1		G-1	L-2	
2-Spotted mite	G			G-2		G-1	L-0	
Cyclamen mite	L-0	L-2				L-1		
Cutworms		L-1		G-1		L-0	L-2	
Leafhopper			G-1					
RASPBERRY								
Fruitworm		L-1				L-2	G-1	
---Caneborer	G-0	G-1		G 0-1		L-1	L-1	
2-Spotted mite	G			L-2		L-1	L-1	
Aphids					G-3			
GENERAL FEEDERS								
Japanese beetle	L-0	L-2	L-0	G-0 L-1	G-2 L-3	G-2	G 0-1	
Rose Chafer	L-1	G-1	L-2	G-0 L-1	L-1		L-1	
Gypsy moth				L-3				
Tent caterpillar			G-2					

Fruit Insect Conditions - 1953
New York-New England States

New Distribution Records: MASSACHUSETTS - Cherry fruitworm (Grapholitha packardi), in early varieties of cultivated blueberries. CONNECTICUT - European apple sawfly extending its range northward and eastward. HUDSON VALLEY- European apple sawfly found in several more orchards in Orange and Dutchess Counties. Phosphate-resistant European red mites found in several orchards (only one in 1952). CHAMPLAIN VALLEY (N.Y.) - Tetranychus mcdanieli found for first time on apple & peach. Garman reports presence on raspberries in Connecticut.

Unusual Outbreaks: MAINE - Increased injury from plant bugs attacking apples - probably tarnished plant bug. Codling moth injury to apples apparently is increasing in Maine. VERMONT - Tent caterpillars worst in years; rosy aphid injury worst in years on Cortland, N. Spy, and Delicious. Two-spotted mite outbreaks severe in a few Champlain Valley orchards during late August and during September. Most serious losses on Delicious which dropped or did not color. MASSACHUSETTS - Gypsy moth - unprecedented outbreak in Connecticut River Valley area. Heavy local outbreaks elsewhere in the state. Oriental fruit moth in fruit of beach plum on Cape Cod. Tarnished plant bug injury to apples. Two-spotted spider mite on peaches late in the season. CONNECTICUT - European apple sawfly fast becoming an economic problem. Each year more and more severe in backyards. HUDSON VALLEY - Spotted tentiform leafminer locally abundant in Kinderhook area. CHAMPLAIN VALLEY - Tarnished plant bug did general damage. No specific control measures attempted, since 1950 and 1953 are the only years it has been commercially injurious. Observations start with 1925.

Abnormal Seasonal Occurrences: MASSACHUSETTS - Very late codling moth and red-banded leafroller in many orchards. Heavy outbreaks of green aphid in mid- and late summer. Red mite and two-spotted mite active very late in season. NEW HAMPS. Apple aphid. HUDSON VALLEY - Plum curculio and codling moth unusually abundant. Apple maggot less of a problem.

CHAMPLAIN VALLEY - Slight increase in codling moth. Moderate increase in red-banded leafroller. RHODE ISLAND - Some late emergence of Japanese beetle and apple maggot.

Unusual Contributing Factors: MAINE - A succession of warm, dry summers during the past 4 or 5 years. VERMONT - Heavy rains Aug. 5 and 12 and a cool week between evidently stopped a threat of a severe 2nd brood codling moth in Addison County. MASSACHUSETTS - Overabundance of rain in April and May followed by severe drought lasting into October. Extremely high temperatures in late August and early September. Severe pruning encouraged sucker growth favorable to green aphid. CONNECTICUT - Drought and heat in late summer contributed to mite, codling moth and possibly apple maggot damage. Early season rains helped the plum curculio. HUDSON VALLEY - Drought probably helped check apple maggot. Hot, dry weather favored codling moth build-up.

RECENT IMPORTANT INTERCEPTIONS AT PORTS OF ENTRY

A living larva of the notoriously destructive grapeworm, Polychrosis botrana (Schift.), was found by Plant Quarantine Inspector Hodson at Boston's Logan Airport. The insect was intercepted in two pounds of grapes from Spain left aboard the aircraft by a passenger. This pest is considered the most serious enemy of grapes in Europe today. It has been intercepted over 13 times in the past few years from France, Greece, Israel, Italy, and Lebanon. A companion pest, Clysia ambiguella Hbn., the vine moth was found by Inspector Lantz in grapes from France.

TRUCK CROP INSECTS

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - Eggs and larvae in some fields at Phoenix and Yuma. (Hammers, McCain). Light to medium infestation on young brussels sprouts in Pinal County being controlled by predators and parasites. (Warren). TEXAS - Severe infestation on cabbage in Cameron County, light on cucumbers in Willacy County. (Wene).

SEED-CORN MAGGOT (Hylemya cilicrura) - OKLAHOMA - Recent heavy oviposition on spinach resulted in 36 percent of plants infested with average of 4 eggs per plant. Less than 1 percent of eggs hatched. (Walton, Kantack).

A SERPENTINE LEAFMINER - TEXAS - Severe infestation on tomatoes and bell pepper in Starr County. Severe also on lettuce in Hidalgo County. (Wene).

BEET ARMYWORM (Laphygma exigua) - ARIZONA - Occasional egg-mass found on cabbage andlettuce at Phoenix. (Hammers).

LEAFHOPPERS - TEXAS - Medium infestation attacking blackeyed peas in Hidalgo County. (Wene).

CUTWORMS - ARIZONA Damaging young carrots at Yuma. Control measures necessary. (McCain).

APHIDS - ARIZONA - A pecan aphid (Monellia sp.) found on lettuce grown near pecan trees at Yuma. (Bibby, Czajkowski). Aphid colonies starting on Italian mustard in Pinal County. (Warren).

BLACK THREAD SCALE (Ischnaspis longirostris) - CALIFORNIA - First established specimens of this scale in California found at San Carlos on Philodendrom pertussum September 24. (Labadie, Keifer).

FLORIDA RED SCALE (Chrysomphalus aonidum) - MISSISSIPPI - Infestations on oleander, ligustrum and other plants in Jackson County. (Bond).

COTTON INSECTS

PINK BOLLWORM (Pectinophora gossypiella) - Gin trash inspections, during period October 16-31, in TENNESSEE, MISSISSIPPI, ARKANSAS, CALIFORNIA, and BAJA CALIFORNIA, MEXICO showed negative results. Since finding of first specimen from Duback, Lincoln Parish, LOUISIANA, four additional pink bollworms have been found from individual samples. In addition, one pink bollworm was found in Claiborne Parish (Reported CEIR, Nov.6), October 21 and one from Union Parish, October 28. Individual samples being inspected from all three newly-infested parishes in effort to locate infested fields. During the period three new OKLAHOMA counties outside the regulated area were found infested: Carter (Reported CEIR, Nov. 6), Murray and Coal. Murray and Carter Counties adjoin the old regulated area while Coal County joins Hughes County where infestation was found for first time last year. (Welker).

COTTON LEAFWORM (Alabama argillacea) - SOUTH CAROLINA - Ranged throughout State late in season in 1953. Late appearance and subsequent defoliation of cotton aided growers in earlier harvesting. (Nettles, Oct. Rept.).

FOREST INSECTS

BLACK TURPENTINE BEETLE (Dendroctonus terebrans) - MISSISSIPPI- Serious damage continues in Crosby area. Outbreaks reported from Harrison and George Counties. (Morris, Oct. 30).

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - MISSISSIPPI Generally present in endemic numbers only. Small flare-ups continue in Crosby area. (Morris, Oct. 30).

TULIPTREE SCALE (Toumeyella liriodendri) - CALIFORNIA - Found for first time in Santa Barbara County, October 21. Specimens collected from tulip tree. (Treloar, Keifer).

A SCALE (Lepidosaphes newsteadi) - MISSISSIPPI - What appears to be this species found on leaves of a conifer in Washington County. (Young).

INSECTS AFFECTING MAN AND ANIMALS

SCREW-WORM (Callitroga hominivorax) - MISSISSIPPI - Reported cases in infested areas have increased sharply. (Lewis).

LIVESTOCK FLIES - MISSISSIPPI - Populations in Delta area decreasing rapidly. (Lewis).

COMMON CATTLE GRUB (Hypoderma lineatum) - OKLAHOMA - Appearing in central and eastern area. (Howell).

EAR TICK (Otobius megnini) - MISSISSIPPI - Specimens from ears of mule received from Jackson. (Branson, Hutchins).

BENEFICIAL INSECTS

A TACHINA FLY - ARIZONA - Larvae of southern cabbageworm (Pieris protodice) highly parasitized in a field of cabbage at Mesa. (Hopkins).

AN ANT (Crematogaster lineolata) - MISSISSIPPI - Found destroying a colony of termites in Harrison County. (McGehee, Price).

MISCELLANEOUS INSECTS

GIANT HORNET (Vespa crabro germana) - SOUTH CAROLINA - Found for first time in State in recent months. Reported from two areas: Powderville, Greenville County and Gray Court, Laurens County. (Dunavan).